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Class Specifications
for the Class:

RADIO ENGINEER

Duties Summary:

Plans, coordinates and establishes all radio communications systems for the State government; and performs other duties as assigned.

Distinguishing Characteristics:

This class reflects responsibility for providing radio engineering services in the planning, design, modification, purchasing, leasing, installation, use and maintenance of all radio communication services and equipment for the State government. Responsibilities of the class include the review of all requests for radio communications services and equipment, the performance of studies in all areas required to determine the feasibility of such requests in view of the overall State communication needs, and recommending alternatives or changes to design plans to accommodate the users agency’s radio communications needs. As this class reflects a highly technically competent radio engineer, assignments are reviewed primarily for conformance with the division's policies and objectives.

Examples of Duties:

Plans and coordinates the engineering, purchase, lease, use and maintenance of radio communications services and equipment of the State government; consolidates and coordinates radio communication requirements within and between State agencies; acts as primary point of contact representing State agencies in all radio communications matters with representatives of all external agencies such as the FCC, FAA, Department of Defense, county agencies, etc.; proposes and recommends policies and procedures concerning radio communication matters of the State government; interprets new FCC rules and regulations and advises State departments; holds and maintains all of the State government's radio licenses; performs FCC frequency coordination duties by analyzing and recommending new frequency assignments for all applications in the public safety category in the Pacific Basin; serves as technical consultant to all departments and

contractors on all radio communications problems; provides systems design specifications and specialized engineering studies such as signal path profile studies to support establishment or relocation of radio systems; establishes operational characteristics for broadband systems; establishes, modifies or interprets radio system performance parameters.

Knowledge and Abilities Required:

Knowledge of: Principles, techniques and practices of electronics engineering and radio communication including UHF, VHF and microwave communication theory; current development and trends in radio communication concepts and technology; sources of radio communication equipment and information; public relations.

Ability to: Interpret, analyze and apply electronics engineering and radio communications principles in solving problems involving microwave communications; design and modify radio communications systems; conduct field tests and inspections of communications systems and equipment; interpret and apply pertinent laws, rules, regulations and policies; recommend operating policies and procedures as they relate to radio communications systems; understand and evaluate the radio communications needs of users; deal tactfully with consultants, user agencies and industry representatives; communicate effectively both orally and in writing.

This is the first class specification for the new class RADIO ENGINEER.

DATE APPROVED: 1/14/83

DONALD BOTELHO
Director of Personnel Services